

## ABSTRACT

A method for manufacturing an electronic circuit device in a motor vehicle fuel tank, the method including arranging one or more electronic modules on a substrate, and fixating the substrate with respect to a fuel tank wall. This allows the electronics to be positioned close to the fuel proper, and the method encapsulates the one or more electronic modules against the fuel by a cap that is connected to the substrate so as to form an encapsulated space that is separated from any fuel or vapour outside the encapsulated space. The electronic modules may provide various different functional principles, *e.g.* fuel level measuring or demand regulated fuel pump control.